



Code	Subject Title	Cr. Hrs	Semester
ZOOL-311	Molecular Genetics II Lab	1	VI
Year	Discipline		
3	Zoology		

- 1) Preparation of overnight bacterial culture
- 2) Isolation of genomic DNA
- 3) Isolation of Plasmid DNA
- 4) Preparation of insert
- 5) Preparation of vector
- 6) Ligation of insert in vector
- 7) Transformation of recombinant DNA into *E. coli*.

Books recommended

1. Snustad, D.P and Simmons, M.J., 2010. Principles of Genetics, 5th edition, John Wiley and Sons (Asia) Pte Ltd.
2. Weaver, R., 2011. *Molecular Biology* 5th Ed. McGraw-Hill.

Additional Reading Material

1. Kornberg, A., 2005. *DNA Replication*, 2 Ed. University Science Books;
 2. Waston, J.D., Baker, T.A., Bell, S.P., Gann, A., Levine, M., Losick, R., 2007. *Molecular Biology of the Gene* (6th Ed.) Benjamin Cummings sLewin, B., 2007 . *Genes IX*. 9 Ed. Jones and Barlett Publication.
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